

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

Claims 1-7 (canceled)

8. (currently amended) A method rendering communications by a third device provided between first and second devices, said first device using a first protocol using an address of a first length, and said second device using a second protocol using an address of a second length, said method comprising the steps of:

receiving from said first device a first packet having a first header including a first address of said first length correlated with said second device as a destination address and including a fourth address of said first length as a source address;

translating said first address into a second address of said second length correlated with said second device;

assigning one of at least one stored address of said second length to said fourth address as a third address;

translating said fourth address into the third address;

translating said first header into a second header including said second address as a destination address and said third address as a source address;

creating a second packet having asaid second header from said first packet; and

sending said second packet to said second device.

9. (previously presented) A method according to claim 8, wherein the step of translating said first address translates said first address into said second address by deleting a predetermined pattern added to said first address.

10. (currently amended) A method according to claim 8, wherein said first address and said second address are ~~correlated-prestored to correlate~~ with each other ~~and pre-stored~~, and said step of translating said first address translates said first address into said second address ~~correlated-prestored to correlate~~ with said first address ~~and pre-stored~~.

Claim 11 (canceled).

12. (currently amended) A method according to claim ~~118~~, further comprising the step of:

sending address translating information including said fourth address and said any-third address correlated with said fourth address to said second device.

13. (currently amended) A method according to claim ~~118~~, further comprising the step of:

storing said fourth address and said any-third address to correlate with each other.

Claim 14 (canceled).

15. (currently amended) A method of relaying a packet sent from a first device using a first protocol to a second device using a second protocol by a third device, comprising the steps of:

receiving from said first device a first packet having a first protocol which is sent using said first protocol;

translating a first address into a second address, said first address having a first length and being included in said-a first protocol header as a destination address and said second address having a second length and being assigned to said second device;

translating a third address into a fourth address of said second length, said third address having said first length and being included in said first protocol header as a source address;

translating said first protocol header into a second protocol header, said second protocol header including said second address as a destination address and including said fourth address as a source address;

creating a second packet having said second protocol header modified from said first packet; and

sending said second packet to said second device; and

releasing said fourth address from said third address.

16. (previously presented) A method according to claim 15, wherein the step of translating said first address translates said first address into said second address by deleting a predetermined pattern added to said first address.

17. (currently amended) A method according to claim 15, wherein said first address and said second address are correlated with each other and pre-stored, and said step of translating said first address translates said first address into said second address correlated-prestored to correlated with said first address and pre-stored.

18. (currently amended) A method according to claim 15, further comprising the steps of:

holding at least one fourth address of said second length; and storing a plurality of fourth addresses of said second length;
in said third address translating step of translating said third address into a fourth address, assigning to said third address, any of said held at least one stored plurality of fourth addressaddresses.

19. (currently amended) A method according to claim 18, further comprising the step of:

sending address translating information including said third address and said any fourth address correlated with said third address to said second device by said third device.

20. (currently amended) A method according to claim 18, further comprising the step of:

storing said third address and said any fourth address to correlate with each other by said third device.

21. (currently amended) A method according to claim 15, further comprising the steps of:

pre-storing said third address and said fourth address of said second length to correspond to each other;

in said ~~third address translating step~~ step of translating said third address into a fourth address, translating said third address ~~into said pre-stored fourth address included in said first header as a source address~~ into said fourth address pre-stored to correspond to said third address; and

in said first header translating step, translating said first header into said second header including said fourth address as a source address.

22. (currently amended) A method of rendering communication between first and second devices, said first device using a first protocol using an address of 128 bits, and said second protocol using an address of 32 bits, comprising the steps of:

receiving from said first device a first packet having a first protocol header;

translating said-a first address into a second address, said first address being included in said first protocol header as a destination address, and said second address having 32 bits assigned in-to said second device;

assigning one of a plurality of stored 32-bit addresses of said second length to a fourth address of 128 bits, included in said first protocol header as a source address, as a third address;

translating said fourth address into the third address

translating said first protocol header into a second protocol header including said second address as a destination address;

creating a second packet having second protocol header from said first packet; and

sending said second packet to said second device.

23. (previously presented) A method according to claim 22, wherein the step of translating said first address translates said first address into said second address by deleting a predetermined 96-bit pattern added to said first address.

24. (previously presented) A method according to claim 22, wherein the step of translating said first address extracts said second address having 32 bits included in said first address, and translates said first address into said second address.

Claim 25 (canceled).

26. (new) A method according to claim 8, further comprising:
releasing said third address assigned to said fourth address.

27. (new) A method according to claim 22, further comprising:
releasing said third address assigned to said fourth address.